

A B S T R A C T

A COMBINED SOURCE-CHANNEL DECODING METHOD AND AN
ASSOCIATED COMBINED SOURCE-CHANNEL DECODER

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A method of combined source-channel decoding of digital data coding discrete values or symbols (i , j , etc.) received by a channel decoder (51) of a digital data decoder (50) from a source (10) over a transmission channel (40) wherein probabilities ($p(i)$, $p(i/j)$) associated with said symbols are applied to a channel decoding trellis of said channel decoder (51). According to the invention, said probabilities are estimated statistically from occurrences of the symbols estimated by said decoder (50). Application to coding and decoding digital data transmitted over a communications channel.

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Translation of the title and the abstract as they were when originally filed by the Applicant. No account has been taken of any changes that may have been made subsequently by the PCT Authorities acting ex officio, e.g. under PCT Rules 37.2, 38.2, and/or 48.3.

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